Schema Release

AseXML Schema Working Group

Release r35

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Document History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Authors** | **Comments** |
| 1.0 | 20/12/2016 | Rob Wilson | Initial draft |
| 1.1 | 13/01/2017 | Rob Wilson | Second round of testing following mods to schema and provision of invalid sample files |

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# Introduction

Version r35 of the aseXML schema has been developed from r34. This schema release is presented to aseXML Subscribers and Industry Participants for review and to AEMO for approval, in accordance with the ASWG Terms of Reference.

# Change Requests

The following ASWG Change Requests have been included in this schema release:

|  |  |
| --- | --- |
| **CR#** | **Description** |
| 59 | aseXML Schema Change Request |
|  |  |

These Change Requests are available from the ASWG or the aseXML website (<http://au.groups.yahoo.com/group/aseXMLTech/files/aseXML> Schemas/Schema Change Requests/) for review by all impacted parties.

# 

# Impact Summary

This table identifies the files, transactions and versioned types that are changed in this schema, where:

* Modified types - is a full list of types changed in this schema
* Derived types – is a list of any types that are derived from a modified type, and are therefore also modified by default
* Versioned types affected – is a list of all versioned types that will need to have the version attribute updated to use this schema
* Transactions potentially affected – is a list of all transactions that contain a modified type, either directly or via a type sustitution
* Schema files affected – is a list of schema files that have been changed in some way for this schema.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modified types** | **Derived types** | **Versioned types affected** | **Transactions potentially affected** | **Schema files affected** |
|  |  |  |  | aseXML\_r34.xsd |
|  |  |  |  | Events\_r34.xsd |
| MeterStatusCode | ElectricityMeter  ElectricityMeters | ElectricityStandingData | NMIDiscoveryResponse  NMIStandingDataResponse  CATSChangeRequest  CATSNotification  CATSDataRequest  ServiceOrderRequest  ServiceOrderResponse  AmendMeterRouteDetails  AccountCreationNotification  MeterReadInputNotification  SpecialReadRequest  SpecialReadResponse  NMIStandingDataUpdateNotification  CATSBulkDataRequest | Electricity\_r33.xsd |
| EmbeddedNetworkIdentifierRow |  |  | ReplicationNotification | CATSTableReplication\_r33.xsd |

# File Change Summary

The following file changes are implemented to create the r30 schema version

## aseXML

* Changed aseXML namespace to urn:aseXML:r35

## Changes

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 | 1 | Updated schema namespace to ‘urn:aseXML:r35’.  Updated Event schema to Events\_r35.  Updated CATSTableReplication schema to CATSTableReplication\_r35.  Updated Electricity schema to Electricity\_r35.  File version changed from r34 to r35. | aseXML\_r35 |
| 2 | 1 | Added r35 release identifier in the Event schema.  File version changed from r34 to r35. | Events\_r35 |
| 3 | 1 | Added the following Simple Types:   * NMIRangesAttributeType   Added the following Complex Types:   * NMIRangesRow   Modified the following Complex Types:   * EmbeddedNetworkIdentifierRow   File version changed from r33 to r35. | CATSTableReplication\_r35 |
| 4 | 1 | Modified the following Simple Types:   * MeterStatusCode   Change the version attribute of versioned type:   * ElectricityStandingData   File version changed from r33 to r35. | Electricity\_r35 |

Table 2‑1 Change Log

### Schema change description

#### aseXML\_r35.xsd

* Update schema namespace to ‘urn:aseXML:r35’.
* Update Event schema to ‘Events\_r35.xsd’.
* Update CATSTableReplication schema to ‘CATSTableReplication\_r35.xsd’.
* Updated Electricity schema to ‘Electricity\_r35.xsd’.

#### Events\_r35.xsd

* Add r35 release identifier

<xsd:simpleType name="r35">

<xsd:annotation>

<xsd:documentation>Purpose - Release r35 identifier.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="ReleaseIdentifier">

<xsd:enumeration value="r35"/>

</xsd:restriction>

</xsd:simpleType>

#### CATSTableReplication\_r35.xsd

* Add new simple type ‘NMIRangesAttributeType’

<xsd:simpleType name="NMIRangesAttributeType">

<xsd:annotation>

<xsd:documentation>

MSATS Data Model Column - Attribute

</xsd:documentation>

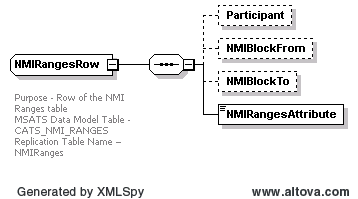
</xsd:annotation>

<xsd:restriction base="xsd:string">

</xsd:restriction>

</xsd:simpleType>

* Add new complex type ‘NMIRangesRow’



<xsd:complexType name="NMIRangesRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the NMI Ranges table

MSATS Data Model Table - CATS\_NMI\_RANGES

Replication Table Name – NMIRanges

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationBaseRow">

<xsd:sequence>

<xsd:element name="Participant" type="PartyIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="NMIBlockFrom" type="NMIBase" nillable="true" minOccurs="0"/>

<xsd:element name="NMIBlockTo" type="NMIBase" nillable="true" minOccurs="0"/>

<xsd:element name="NMIRangesAttribute" type="NMIRangesAttributeType"/>

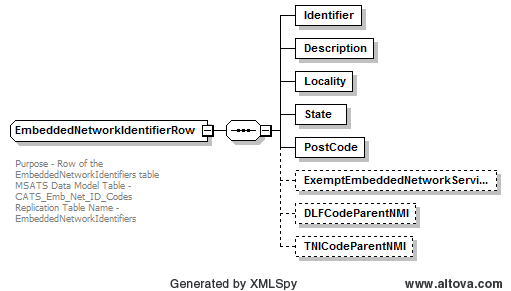
</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

* Modify existing complex type ‘EmbeddedNetworkIdentifierRow’ to add three new elements: ‘ExemptEmbeddedNSP’, ‘DLFCodeParentNMI’ and ‘TNICodeParentNMI’. The element names need to be max 30 characters long as they are used in SQL query in MSATS to generate automated nightly codes replications.



<xsd:complexType name="EmbeddedNetworkIdentifierRow">

<xsd:annotation>

<xsd:documentation>

Purpose - Row of the EmbeddedNetworkIdentifiers table

MSATS Data Model Table - CATS\_Emb\_Net\_ID\_Codes

Replication Table Name - EmbeddedNetworkIdentifiers

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReplicationDateRangeRow">

<xsd:sequence>

<xsd:element name="Identifier" type="EmbeddedNetworkIdentifier"/>

<xsd:element name="Description" type="EmbeddedNetworkDescription"/>

<xsd:element name="Locality" type="AustralianSuburbOrPlaceOrLocality"/>

<xsd:element name="State" type="AustralianStateOrTerritory"/>

<xsd:element name="PostCode" type="AustralianPostCode"/>

<xsd:element name="ExemptEmbeddedNSP" type="PartyIdentifier"

nillable="true" minOccurs="0"/>

<xsd:element name="DLFCodeParentNMI" type="DistributionLossFactorCode" nillable="true"

minOccurs="0"/>

<xsd:element name="TNICodeParentNMI" type="TransmissionNodeIdentifier" nillable="true"

minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

#### Electricity\_r35.xsd

* Modify existing simple type ‘MeterStatusCode’ to add enumeration for new Meter Register Status Code of ‘D’ :

<xsd:simpleType name="MeterStatusCode">

<xsd:annotation>

<xsd:documentation>

Purpose - Status code of Meter Register Data

MSATS Data Model Column - MeterStatus

</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="xsd:string">

<xsd:enumeration value="C"/>

<xsd:enumeration value="D"/>

<xsd:enumeration value="R"/>

</xsd:restriction>

</xsd:simpleType>

* Change the version attribute of versioned type ‘ElectricityStandingData’ impacted by ~~removal~~ modification of enumeration from ‘MeterStatusCode’ type:

Change from: xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Change to: <xsd:attribute name="version" type="r35" use="optional" default="r35"/>

# Schema Manifest

The table below shows the schema files included in this release. Files that have been added, removed or modified for this release are marked.

| File | Modified |
| --- | --- |
| Acknowledgements\_r15.xsd |  |
| aseXML\_r35.xsd | \* |
| BAR\_r31.xsd |  |
| BulkDataTool\_r33.xsd |  |
| CATSReports\_r33.xsd |  |
| CATSTableReplication\_r35.xsd | \* |
| ClientInformation\_r15.xsd |  |
| Common\_r34.xsd |  |
| CustomerDetails\_r34.xsd |  |
| CustomerTransfer\_r29.xsd |  |
| ElectricityHighSpeedMonitoring\_r26.xsd |  |
| ElectricityMasterStandingData.xsd |  |
| ElectricityMMS\_r33.xsd |  |
| Electricity\_r35.xsd | \* |
| Enumerations.xsd |  |
| Events\_r35.xsd | \* |
| Faults\_r33.xsd |  |
| GasMarketWholesale\_r34.xsd |  |
| Gas\_r34.xsd |  |
| Header\_r34.xsd |  |
| HighSpeedMonitoring\_r33.xsd |  |
| MarketWholesale\_r20.xsd |  |
| MDMTReports\_r33.xsd |  |
| MeterDataManagement\_r33.xsd |  |
| NetworkBilling\_r34.xsd |  |
| NMIDataAccess\_r33.xsd |  |
| NOSAssessment\_r28.xsd |  |
| NOSBooking\_r33.xsd |  |
| NOSCommon\_r28.xsd |  |
| NOSEquipment\_r33.xsd |  |
| OneWayNotification\_r33.xsd |  |
| Reports\_r34.xsd |  |
| ServiceOrder\_r33.xsd |  |
| TableReplication\_r33.xsd |  |
| Transactions\_r34.xsd |  |

# Schema Test

## Test Platforms

The new schema has been tested using the following platforms:

* XMLSpy 2010
* MSXML6
* Xerces 2.2.1 and 2.9.1

## Test

The ASWG ensures that all recommended parsers on relevant platforms can successfully validate the proposed schema.

### Test Platforms

Supplied samples have been tested using the following parsers:

* MSXML 6.0
* Xerces 2.2.1
* Xerces 2.9.1
* XMLSpy 2010

### Test Cases

* NOTE: Sample filenames have been modified, where they contained a space in the name, as these failed Xerces validation

NEMB2B\_CustomerDetailsNotification\_SiteVacant\_r35.xml

NEMB2B\_CustomerDetailsNotification\_Update\_BusinessName\_r35.xml

NEMB2B\_CustomerDetailsNotification\_Update\_r35.xml

NEMB2B\_CustomerDetailsNotification\_Update\_Response\_r35.xml

NEMB2B\_CustomerDetailsReconciliation\_r35.xml

NEMB2B\_CustomerDetailsRequest\_Other\_r35.xml

NEMB2B\_CustomerDetailsRequest\_r35.xml

NEMB2B\_DisputeNotification\_vic\_a\_r35.xml

NEMB2B\_DisputeResponse\_vic\_a\_r35.xml

NEMB2B\_HSMMonitorData\_Request\_r35.xml

NEMB2B\_hsm\_capability.all.hsmdm\_r35.xml

NEMB2B\_hsm\_capability.normal.hsmdm\_gpupp\_r35.xml

NEMB2B\_hsm\_capability.selective.hsmdm\_r35.xml

NEMB2B\_hsm\_data.continuous.hsmdl\_r35.xml

NEMB2B\_hsm\_data.continuous.normal.hsmdl\_gpupp\_r35.xml

NEMB2B\_hsm\_data.triggered.hsmdl\_r35.xml

NEMB2B\_hsm\_data.triggered.normal.hsmdl\_gpupp\_r35.xml

NEMB2B\_hsm\_inventory.all.hsmdh\_r35.xml

NEMB2B\_hsm\_inventory.normal.hsmdh\_gpupp\_r35.xml

NEMB2B\_hsm\_inventory.selective.hsmdh\_r35.xml

NEMB2B\_hsm\_monitors\_statusall\_request\_r35.xml

NEMB2B\_hsm\_monitors\_statusrequest\_nil\_r35.xml

NEMB2B\_hsm\_monitors\_statusrequest\_r35.xml

NEMB2B\_hsm\_rollcall.all.hsmdh\_hsm\_r35.xml

NEMB2B\_hsm\_rollcall.normal.hsmdh\_gpupp\_r35.xml

NEMB2B\_hsm\_rollcall.selective.hsmdh\_hsm\_r35.xml

NEMB2B\_hsm\_triggers.all.hsmdm\_hsm\_r35.xml

NEMB2B\_hsm\_triggers.normal.hsmdm\_gpupp\_r35.xml

NEMB2B\_hsm\_triggers.selective.hsmdm\_hsm\_r35.xml

NEMB2B\_MeterDataMissingNotification\_r35.xml

NEMB2B\_MeterDataNotificationConsumption\_r35.xml

NEMB2B\_MeterDataNotification\_Consumption\_r35.xml

NEMB2B\_MeterDataNotification\_Interval\_r35.xml

NEMB2B\_MeterDataVerifyRequest\_basic\_HighReading\_r35.xml

NEMB2B\_MeterDataVerifyRequest\_Interval\_NMIConfig\_r35.xml

NEMB2B\_ServiceOrderAppointmentNotification\_r35.xml

NEMB2B\_ServiceOrderRequest.Adds\_n\_Alts\_r35.xml

NEMB2B\_ServiceOrderRequest.Alloc\_NMI\_r35.xml

NEMB2B\_ServiceOrderRequest.DeEnergise\_r35.xml

NEMB2B\_ServiceOrderRequest.MeterInvestigation\_r35.xml

NEMB2B\_ServiceOrderRequest.MeterReconfig\_r35.xml

NEMB2B\_ServiceOrderRequest.Miscellaneous\_r35.xml

NEMB2B\_ServiceOrderRequest.ReEnergise\_r35.xml

NEMB2B\_ServiceOrderRequest.SpecialRead\_r35.xml

NEMB2B\_ServiceOrderRequest.SupplyAbolishment\_r35.xml

NEMB2B\_ServiceOrderRequestNewConnection\_r35.xml

NEMB2B\_ServiceOrderRequest\_Cancel\_r35.xml

NEMB2B\_ServiceOrderRequest\_Re-energisation\_sc1\_cancel\_r35.xml

NEMB2B\_ServiceOrderRequest\_Re-energisation\_sc1\_r35.xml

NEMB2B\_ServiceOrderResponse\_C\_r35.xml

NEMB2B\_ServiceOrderResponse\_N\_r35.xml

NEMB2B\_ServiceOrderResponse\_O\_r35.xml

NEMB2B\_ServiceOrderResponse\_Re-energisation\_sc1\_cancel\_r35.xml

NEMB2B\_SiteAccessDetails\_r35.xml

NEMB2B\_SiteAddressDetails\_r35.xml

NEMMSATS\_C1\_METER\_REGISTER\_r35.xml

NEMMSATS\_catsm\_energyapbatch\_2501\_CustClass\_r35.xml

NEMMSATS\_catsm\_energyap\_5054\_CustClass\_r35.xml

NEMMSATS\_catsm\_generic\_C3\_request\_r35.xml

NEMMSATS\_catsm\_generic\_C4\_request\_r35.xml

NEMMSATS\_catsm\_generic\_noParameters\_response\_r35.xml

NEMMSATS\_catsm\_generic\_test\_response\_r35.xml

NEMMSATS\_catsm\_NMIStandingDataResponse\_r35.xml

NEMMSATS\_catsm\_poolnsw\_CR2501\_r35.xml

NEMMSATS\_catsm\_ReplicationNotificationAddress\_r35.xml

NEMMSATS\_catsm\_wbaympa\_C1\_NMI\_DATA\_CustClass\_r35.xml

NEMMSATS\_CATSNotification\_r35.xml

NEMMSATS\_CATSSDRTrafficLightReportResponse\_r35.xml

NEMMSATS\_CATSStandingDataQualityReportResponse\_r35.xml

NEMMSATS\_ChangeRequest2501\_r35.xml

NEMMSATS\_ChangeRequestAllFieldsMeterConfig\_r35.xml

NEMMSATS\_ChangeRequestAllFields\_r35.xml

NEMMSATS\_ChangeRequestMsgAck\_r35.xml

NEMMSATS\_ChangeRequestMsgTnsAck\_r35.xml

NEMMSATS\_ChangeRequestNotification\_seq03\_r35.xml

NEMMSATS\_ChangeRequestResponseBad\_seq02\_r35.xml

NEMMSATS\_ChangeRequestResponseGood\_seq002\_r35.xml

NEMMSATS\_ChangeRequestTnsAckErr\_r35.xml

NEMMSATS\_ChangeRequestTnsAck\_r35.xml

NEMMSATS\_ChangeRequest\_r35.xml

NEMMSATS\_ChangeRequest\_seq01\_r35.xml

NEMMSATS\_CustomerDetailsNotification\_MovementType\_r35.xml

NEMMSATS\_CustomerDetailsRequest\_RequestReason\_r35.xml

NEMMSATS\_DataRequestReplicationNotification\_r35.xml

NEMMSATS\_DataRequest\_r35.xml

NEMMSATS\_MDMReportRM11\_2\_r35.xml

NEMMSATS\_MDMReportRM11\_r35.xml

NEMMSATS\_MDMReportRM16\_2\_r35.xml

NEMMSATS\_MDMReportRM16\_r35.xml

NEMMSATS\_MDMReportRM20\_r35.xml

NEMMSATS\_MDMReportRM21\_r35.xml

NEMMSATS\_MDMReportRM26\_r35.xml

NEMMSATS\_MDMTMeterDataDeliveryReportResponse\_r35.xml

NEMMSATS\_MeterDataNotificationConsumptionMulti\_r35.xml

NEMMSATS\_MeterDataNotificationConsumption\_r35.xml

NEMMSATS\_MeterDataNotificationInterval\_r35.xml

NEMMSATS\_MeterDataNotificationProfile\_r35.xml

NEMMSATS\_MeterDataResponseConsumption\_r35.xml

NEMMSATS\_MsatsLimits\_r35.xml

NEMMSATS\_MsatsLimits\_ReportRequest\_r35.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_group\_r35.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_nogroup\_1\_r35.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_nogroup\_r35.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_r35.xml

NEMMSATS\_NMIDiscoveryRequestDPID\_r35.xml

NEMMSATS\_NMIDiscoveryRequestMeter\_2\_r35.xml

NEMMSATS\_NMIDiscoveryRequestMeter\_r35.xml

NEMMSATS\_NMIDiscoveryRequestType2\_r35.xml

NEMMSATS\_NMIDiscoveryRequestType3\_r35.xml

NEMMSATS\_NMIDiscoveryResponseErr\_r35.xml

NEMMSATS\_NMIDiscoveryResponse\_2\_r35.xml

NEMMSATS\_NMIDiscoveryResponse\_ITD\_r35.xml

NEMMSATS\_NMIDiscoveryResponse\_MCR\_TRM\_r35.xml

NEMMSATS\_NMIDiscoveryResponse\_NNS\_OTR\_SAB\_r35.xml

NEMMSATS\_NMIDiscoveryResponse\_r35.xml

NEMMSATS\_NMIDiscoveryResponse\_TRI\_r35.xml

NEMMSATS\_NMIStandingDataRequest\_r35.xml

NEMMSATS\_NMIStandingDataResponseMeterConfig\_r35.xml

NEMMSATS\_NMIStandingDataResponse\_2\_r35.xml

NEMMSATS\_NMIStandingDataResponse\_r35.xml

NEMMSATS\_ObjectionNotification\_seq06\_r35.xml

NEMMSATS\_Objection\_seq04\_r35.xml

NEMMSATS\_ParticipantSystemStatus\_ReportRequest\_01\_r35.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_01\_r35.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_02\_r35.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_03\_r35.xml

NEMMSATS\_ReplicationNotificationAddress\_r35.xml

NEMMSATS\_ReplicationNotificationCATSChangeResponse\_r35.xml

NEMMSATS\_ReplicationNotificationCATSStreamlinedCRCodes\_2\_r35.xml

NEMMSATS\_ReplicationNotificationCATSStreamlinedCRCodes\_r35.xml

NEMMSATS\_ReplicationNotificationEmbeddedNetworkIdentifiers\_r35.xml

NEMMSATS\_ReplicationNotificationMeterConfig\_r35.xml

NEMMSATS\_ReplicationNotificationMeter\_r35.xml

NEMMSATS\_ReplicationNotificationNetworkTariffCodes\_r35.xml

NEMMSATS\_ReplicationNotificationNMIRanges\_r35.xml

NEMMSATS\_ReplicationNotificationStandingDataAccessRules\_r35.xml

NEMMSATS\_ReportRequestChangeManagement\_r35.xml

NEMMSATS\_ReportRequestMaster\_r35.xml

NEMMSATS\_ReportRequestMeterConfig\_r35.xml

NEMMSATS\_ReportRequestNewParticipantAccess\_r35.xml

NEMMSATS\_ReportRequestNMIAudit\_r35.xml

NEMMSATS\_ReportRequestNMIDiscovery\_r35.xml

NEMMSATS\_ReportResponseChangeManagement\_r35.xml

NEMMSATS\_ReportResponseNMIAudit\_r35.xml

NEMMSATS\_ReportResponseNMIMasterMeterConfig\_r35.xml

NEMMSATS\_ReportResponseStatistics\_r35.xml

NEMMSATS\_SnapshotReportMasterDataStreams\_r35.xml

NEMMSATS\_WithdrawChangeRequest\_seq09\_r35.xml

NEMMSATS\_WithdrawObjectionNotification\_seq08\_r35.xml

NEMMSATS\_WithdrawObjection\_seq07\_r35.xml

NEMMSATS\_WithdrawRequestNotification\_seq10\_r35.xml

NEMWholesale\_emmsh\_63bigbigbig\_r35.xml

NEMWholesale\_emmsh\_r35.xml

NEMWholesale\_MMSIntermittentAvailability\_01\_r35.xml

NEMWholesale\_MMSIntermittentAvailability\_02\_r35.xml

NEMWholesale\_MMSIntermittentAvailability\_03\_r35.xml

NEMWholesale\_MMSIntermittentAvailability\_big\_r35.xml

NEMWholesale\_MMSWindAvailabilityRequest\_TooBig\_r35.xml

NEMWholesale\_NOSAck\_r35.xml

NEMWholesale\_NOSAssessmentInsertStatusInfoResponse\_r35.xml

NEMWholesale\_NOSAssessmentInsMultiOutageInfoResponse\_r35.xml

NEMWholesale\_NOSAssessmentUpdateIndoubtInfoResponse\_r35.xml

NEMWholesale\_NOSAssessmentUpdateNoteInfoResponse\_r35.xml

NEMWholesale\_NOSAssessmentWithdrawInfoResponse\_r35.xml

NEMWholesale\_NOSBookingDeleteOutageFromRepeating\_r35.xml

NEMWholesale\_NOSBookingInfoRequest\_r35.xml

NEMWholesale\_NOSBookingInfoResponse7276\_r35.xml

NEMWholesale\_NOSBookingInfoResponse\_r35.xml

NEMWholesale\_NOSBookingOutageActutalUpdate\_r35.xml

NEMWholesale\_NOSBookingResponse\_r35.xml

NEMWholesale\_NOSBookingWithAttachment\_r35.xml

NEMWholesale\_NOSBooking\_r35.xml

NEMWholesale\_NOSEquipmentInfoRequest\_r35.xml

NEMWholesale\_NOSEquipmentInfoResponse\_r35.xml

NEMWholesale\_NOSEquipmentResponse\_r35.xml

NEMWholesale\_NOSEquipmentSubmitType\_r35.xml

NEMWholesale\_NOSNAck\_r35.xml

NEMWholesale\_NOSValidCertainty\_r35.xml

NEMWholesale\_NOSValidResubmit\_r35.xml

NEMWholesale\_NOSWithDrawBooking\_r35.xml

NEMWholesale\_outghtransgpd\_valid\_r35.xml

NEMWholesale\_outghtransgpd\_valid\_resubmit\_r35.xml

NSWGAS\_AccountCreationNotification\_JGN\_r35.xml

NSWGAS\_AccountCreationNotification\_Mandatoryr34.xml

NSWGAS\_AccountCreationNotification\_Multmeter\_Mandatoryr34.xml

NSWGAS\_AccountCreationNotification\_WWT\_r35.xml

NSWGAS\_AmendSiteAccessDetails\_JGN\_r35.xml

NSWGAS\_AmendSiteAccessDetails\_WWT\_r35.xml

NSWGAS\_CATSChangeRequest\_ErrorCorrection\_r35.xml

NSWGAS\_CATSChangeRequest\_MoveIn\_r35.xml

NSWGAS\_CATSChangeRequest\_r35.xml

NSWGAS\_CATSChangeRequest\_txn214\_r35.xml

NSWGAS\_CATSDataRequest\_2\_r35.xml

NSWGAS\_CATSDataRequest\_r35.xml

NSWGAS\_CATSNotification-COM\_r35.xml

NSWGAS\_CATSNotification-COM\_to\_DB\_error\_correction\_WWT\_r35.xml

NSWGAS\_CATSNotification-COM\_to\_DB\_WWT\_r35.xml

NSWGAS\_CATSNotification-PEN\_r35.xml

NSWGAS\_CATSNotification\_txn219\_r35.xml

NSWGAS\_CATSObjectionRequest\_-DB\_r35.xml

NSWGAS\_CATSObjectionRequest\_r35.xml

NSWGAS\_CustomerDetailsNotification\_r35.xml

NSWGAS\_ERFTTotalGasInjectedNotification\_r35.xml

NSWGAS\_ERFTTotalGasInjectedNotification\_WWT\_r35.xml

NSWGAS\_FieldWorkNotification\_r35.xml

NSWGAS\_IAIT\_ImbalanceTradeRequest\_r35.xml

NSWGAS\_IAIT\_ParticipantImbalanceAmountRequest\_r35.xml

NSWGAS\_LinepackAndUnaccountedForGasData\_r35.xml

NSWGAS\_LinepackAndUnaccountedForGasData\_WWT\_r35.xml

NSWGAS\_MarkeReport\_T2130HeatingValueDailyRpt\_r35.xml

NSWGAS\_MarketReport\_ApportionmentPercentageRpt\_int809\_r35.xml

NSWGAS\_MarketReport\_BasicConsumptionRpt\_int874\_r35.xml

NSWGAS\_MarketReport\_ChangeOfStandingData\_int803\_r35.xml

NSWGAS\_MarketReport\_CustomerChurnRpt\_int886\_r35.xml

NSWGAS\_MarketReport\_DailyNSLRpt\_int871\_r35.xml

NSWGAS\_MarketReport\_DailyToUserRpt\_int812\_r35.xml

NSWGAS\_MarketReport\_DPRExtractRpt\_r35.xml

NSWGAS\_MarketReport\_EffectiveDegreeDayRpt\_int891\_r35.xml

NSWGAS\_MarketReport\_ERFTReconciliationResultsRpt\_r35.xml

NSWGAS\_MarketReport\_EstimationResultsToNWORpt\_r35.xml

NSWGAS\_MarketReport\_EstimationResultsToUserRpt\_int804\_r35.xml

NSWGAS\_MarketReport\_ExpiredImbalanceTradeRpt\_int817\_r35.xml

NSWGAS\_MarketReport\_MatchedImbalanceTradeRpt\_int816\_r35.xml

NSWGAS\_MarketReport\_MeterReadingToUserNonSTTMRpt\_int854a\_r35.xml

NSWGAS\_MarketReport\_MeterReadingToUserRpt\_int854\_r35.xml

NSWGAS\_MarketReport\_MonthlyToUserRpt\_int814\_r35.xml

NSWGAS\_MarketReport\_ParticipantImbalanceAmountRpt\_int818\_r35.xml

NSWGAS\_MarketReport\_ReconciliationResultsRpt\_int802\_r35.xml

NSWGAS\_MarketReport\_RevisedEstimationResultsToNWORpt\_r35.xml

NSWGAS\_MarketReport\_RevisedEstimationResultsToUserRpt\_int805\_r35.xml

NSWGAS\_MarketReport\_RevisedImbalanceRpt\_int815\_r35.xml

NSWGAS\_MarketReport\_T2270TotalCLPRpt\_int828\_r35.xml

NSWGAS\_MarketReport\_T2275TotalCLPRpt\_r35.xml

NSWGAS\_MarketReport\_T298NewStreetListingRpt\_r35.xml

NSWGAS\_MarketReport\_T299CompleteMIRNListingRpt\_r35.xml

NSWGAS\_MarketReport\_TotalGasInjectedRpt\_int811\_r35.xml

NSWGAS\_MarketReport\_WeeklyToUserRpt\_int813\_r35.xml

NSWGAS\_MeterDataNotification\_r35.xml

NSWGAS\_MeterDataNotification\_to\_AEMO\_Basic\_meters\_r35.xml

NSWGAS\_MeterDataNotification\_to\_AEMO\_Interval\_meters\_r35.xml

NSWGAS\_MeterDataResponse\_r35.xml

NSWGAS\_MeterDataVerifyRequest\_JGN\_r35.xml

NSWGAS\_MeterDataVerifyRequest\_WWT\_r35.xml

NSWGAS\_MeterDataVerifyResponse\_JGN\_r35.xml

NSWGAS\_MeterDataVerifyResponse\_WWT\_r35.xml

NSWGAS\_MeterFix\_JGN\_r35.xml

NSWGAS\_MeterFix\_WWT\_r35.xml

NSWGAS\_MeterNotificationMIRNStatusUpdate\_r35.xml

NSWGAS\_MeterReadInputNotification\_(MMSD)\_r35.xml

NSWGAS\_MeterReadInputNotification\_r35.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffA\_r35.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffB\_r35.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffD\_WWT\_r35.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffV\_WWT\_r35.xml

NSWGAS\_NMIDiscoveryResponse\_JGN\_r35.xml

NSWGAS\_NMIDiscoveryResponse\_WWT\_r35.xml

NSWGAS\_NMIStandingDataRequest\_JGN\_r35.xml

NSWGAS\_NMIStandingDataResponse\_JGN\_r35.xml

NSWGAS\_NMIStandingDataResponse\_WWT\_r35.xml

NSWGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r35.xml

NSWGAS\_ServiceOrderRequest\_MFX\_example\_JGN\_r35.xml

NSWGAS\_ServiceOrderRequest\_MFX\_example\_WWT\_r35.xml

NSWGAS\_ServiceOrderResponse\_completion\_WWT\_r35.xml

NSWGAS\_ServiceOrderResponse\_initial\_WWT\_r35.xml

NSWGAS\_ServiceOrderResponse\_NoAcess(special\_read)\_r35.xml

NSWGAS\_TransAck\_Accept\_r35.xml

SAWAGAS\_GasMeterNotification\_MeterFix\_SAGAS\_r35.xml

SAWAGAS\_GasMeterNotification\_MeterFix\_WAGAS\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_HeatingRate\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_ECNET\_CU\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_TFR\_CU\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DCN\_GasZone\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DCN\_MeterType\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DIS\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_ECNET\_CU\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_ECNET\_NO\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_NDP\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_PR\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_REC\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_SU\_CU\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_TFR\_CU\_r35.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_TFR\_NO\_r35.xml

VICGAS\_AccCreationNotification\_r35.xml

VICGAS\_AmendMeterRouteDetails(RouteChange)\_r35.xml

VICGAS\_AmendMeterRouteDetails(SiteAccess)\_r35.xml

VICGAS\_AmendMeterRouteDetails(SiteAddress)\_r35.xml

VICGAS\_CATSChangeAlertToNFRO\_r35.xml

VICGAS\_CATSChangeAlertToVENCorp\_r35.xml

VICGAS\_CATSChangeRequestAlternateRetro\_r35.xml

VICGAS\_CATSChangeRequestAlternate\_r35.xml

VICGAS\_CATSChangeRequestRetro\_r35.xml

VICGAS\_CATSChangeRequestStandingDataResponseRetro\_r35.xml

VICGAS\_CATSChangeRequestStandingDataResponse\_r35.xml

VICGAS\_CATSChangeRequest\_r35.xml

VICGAS\_CATSChangeResponse\_r35.xml

VICGAS\_CATSChangeWithdrawal\_r35.xml

VICGAS\_CATSDataRequest\_r35.xml

VICGAS\_CATSNoticeOfReadFailure\_r35.xml

VICGAS\_CATSNotificationCDB\_r35.xml

VICGAS\_CATSNotificationCFRO\_r35.xml

VICGAS\_CATSNotificationCompletedCDB\_r35.xml

VICGAS\_CATSNotificationPendingCFRO\_r35.xml

VICGAS\_CATSNotificationWithdrawalCDB\_r35.xml

VICGAS\_CATSNotificationWithdrawalCFRO\_r35.xml

VICGAS\_CATSNotification\_01\_r35.xml

VICGAS\_CATSNotification\_02\_r35.xml

VICGAS\_CATSObjectionNotification\_r35.xml

VICGAS\_CATSObjectionRequest\_r35.xml

VICGAS\_CATSObjectionResponse\_r35.xml

VICGAS\_CATSObjectionWithdrawal\_r35.xml

VICGAS\_CurrentRetailerConfirmationRequest\_r35.xml

VICGAS\_CurrentRetailerConfirmationResponse\_r35.xml

VICGAS\_FieldWorkNotification\_r35.xml

VICGAS\_GasInformationRequestData\_r35.xml

VICGAS\_GasRetrieveRequestData\_AMDQId\_r35.xml

VICGAS\_GasRetrieveRequestData\_AMDQNominationCGD\_r35.xml

VICGAS\_GasRetrieveRequestData\_AMDQSearch\_r35.xml

VICGAS\_GasRetrieveRequestData\_r35.xml

VICGAS\_GasRetrieveResponseData\_AMDQNominationCGD\_2\_r35.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_NOIHNS\_r35.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r32NOIHNS.xml.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r35.xml

VICGAS\_GasRetrieveResponseData\_r35.xml

VICGAS\_GasSearchRequestData\_r35.xml

VICGAS\_GasSearchResponseData\_AmdqNomination\_r35.xml

VICGAS\_GasSearchResponseData\_r35.xml

VICGAS\_GasSearchResponseData\_StandingWithdrawn\_r35.xml

VICGAS\_GasSubmitRequestData\_AgencyNominationConfirmation\_r35.xml

VICGAS\_GasSubmitRequestData\_AmdqNomination.xml.xml

VICGAS\_GasSubmitRequestData\_IHN\_NOIHNS\_r35.xml

VICGAS\_GasSubmitRequestData\_IHN\_r35.xml

VICGAS\_GasSubmitRequestData\_r35.xml

VICGAS\_GasSubmitResponseData\_AmdqNomination\_2\_r35.xml

VICGAS\_GasSubmitResponseData\_r35.xml

VICGAS\_MeterDataHistoryRequest\_r35.xml

VICGAS\_MeterDataHistoryResponse\_r35.xml

VICGAS\_MeterDataMissingNotification\_r35.xml

VICGAS\_MeterDataNotification\_r35.xml

VICGAS\_MeterDataResponse\_r35.xml

VICGAS\_MeterDataVerifyRequest\_r35.xml

VICGAS\_MeterDataVerifyResponse\_r35.xml

VICGAS\_MeteredSupplyPointsCount\_r35.xml

VICGAS\_MeterNotificationMeterFix\_r35.xml

VICGAS\_MeterNotificationMIRNStatusUpdate\_r35.xml

VICGAS\_MeterReadInputNotification\_r35.xml

VICGAS\_NetworkDUoSBillingNotification\_DisputeRes\_r35.xml

VICGAS\_NetworkDUoSBillingNotification\_Dispute\_r35.xml

VICGAS\_NetworkDUoSBillingNotification\_PaymentAdvice\_r35.xml

VICGAS\_NetworkDUoSBillingNotification\_r35.xml

VICGAS\_NMIDiscoveryResponseGas\_r35.xml

VICGAS\_NMIStandingDataResponseGas\_r35.xml

VICGAS\_NMIStandingDataUpdateNotificationResponse\_r35.xml

VICGAS\_NMIStandingDataUpdateNotification\_r35.xml

VICGAS\_SearchResponse\_Data\_IHN\_NOIHN\_r35.xml

VICGAS\_SearchResponse\_Data\_IHN\_r35.xml

VICGAS\_ServiceOrderRequest(MeterFix)\_01\_r35.xml

VICGAS\_ServiceOrderRequest(MeterFix)\_02\_r35.xml

VICGAS\_ServiceOrderRequest(NewConnection)\_r35.xml

VICGAS\_ServiceOrderResponse(Completion)\_r35.xml

VICGAS\_ServiceOrderResponse(Initial)\_r35.xml

VICGAS\_ServiceOrderResponse(NoAccess)\_r35.xml

VICGAS\_ServiceOrderResponse(StandingData)\_r35.xml

VICGAS\_SpecialReadRequest\_r35.xml

VICGAS\_SpecialReadResponse(NoAccess)\_r35.xml

VICGAS\_SpecialReadResponse\_r35.xml

VICGAS\_SubmitResponseData\_IHN\_NOIHN\_r35.xml

VICGAS\_SubmitResponseData\_IHN\_r35.xml

VICGAS\_TransAck\_r35.xml

VICGAS\_TxnNAck\_r35.xml

Invalid files were also tested:

NEMB2B\_SiteAddressDetails\_Enumeration\_StreetType\_v5\_Invalid\_r35.xml

NEMMSATS\_ChangeRequest2501\_invalid\_r35.xml

NEMMSATS\_ChangeRequestAllFieldsMeterConfig\_invalid\_r35.xml

NEMMSATS\_MessageTooBigFailure\_Invalid\_r35.xml

NEMMSATS\_NMIStandingDataResponseMeterConfig\_invalid\_r35.xml

NEMMSATS\_UncompressionFailure\_Invalid\_r35.xml

NEMMSATS\_ValidationFailure\_Invalid\_r35.xml

NEMMSATS\_WellFormedFailure\_Invalid\_r35.xml

### Test Process

1. Obtain a copy of the 5 existing regression test suite XML files
   1. nem\_samples\_r34.zip
   2. nem\_wholesale\_samples\_r34.zip
   3. nemb2b\_samples\_r34.zip
   4. sawa\_samples\_r34.zip
   5. vicgas\_samples\_r34.zip
2. Obtain a copy of the new R35 test suite XML files
3. Unzip all test XML files a folder
4. Replace “xmlns:ase="urn:aseXML:r34” with “xmlns:ase="urn:aseXML:r35”
5. Replace “xsi:schemaLocation="urn:aseXML:r35 <http://www.nemmco.com.au/aseXML/schemas/r35/aseXMLr35.xsd>” with “xsi:schemaLocation="urn:aseXML:r35 S:/aseXML\_r35.xsd”
6. Check every single test XML file individually to detect variances in the above xsi:schemaLocation approach, e.g. hardcoded “O:/<filename>” instances and other occurrences not picked up by the standard search/replace above need to be manually fixed. It would be good if a single search/replace could be used for this step, and the test XML files had consistent headers.
7. Run the test process using the 4 supported XML Toolkits.
8. Check output log for any successful parse results, as well as expected or unexpected errors.

### Test Results

All OK on all Test Platforms, see section 6.2.1

* All valid test files passed with no parse error.
* Some invalid test files provided from previous schema versions passed validation. AEMO have advised “They are indeed not examples of invalid files. In fact they are examples of response that the hub will provide in response to files which are invalid for reasons mentioned in the file name.” Remaining files failed validation as expected.



### Character Classification

Pattern restriction is enforced by regular expressions in some places in aseXML schema. That makes knowing the precise set of classification of characters important. It is particularly important in the testing process. In some quick tests using simple Pattern class in JAVA – not fully fledged JAVA parsers – some differences vis-à-vis XML Spy were reported. These tests were performed to validate the data stored in database against aseXML type definitions. Some characters that were treated differently between JAVA Pattern class and XML Spy were $ + |. XML Spy accepted them as punctuation characters but JAVA Pattern class rejected. Note, these three characters are only a few examples of difference, not an exhaustive list. As explained below, further investigations revealed that XML Spy is correct as per the XML standard.

The XML standards depend upon Unicode specifications for the purpose of this classification. The complete list of classification of Unicode characters in various classes can be found at <http://www.unicode.org/>.

To download the classification for any particular version of classification, start from directory listing at <http://www.unicode.org/Public> and traverse down the tree of the concerned version to download the zip (usually named ucd.zip) which contains all the documents for that version. The zip for version 6.2.0 resides at <http://www.unicode.org/Public/6.2.0/ucd/>. The document in this zip, usually named UnicodeData.txt, contains entire classification of all Unicode characters, having a line per Unicode character, with semi-colon delimited fields in each line. Explanation of fields can be found in the documentation in the zip (UCD.html). To view this UnicodeData.txt document conveniently, start Excel and open the document. While opening the document Excel will ask for information about the file contents. In response specify the document to be semicolon delimited with each column of the document being text. The column C of the Excel spreadsheet specifies the character classification. Note, while opening the file in Excel if each column is not specified to be text then Excel may format some information incorrectly.

The classification of the extended ASCII characters for version 6.2.0 of Unicode is provided here in an Excel spreadsheet :



The classifications starting with L signify letters, starting with N signify digits, starting with P signify punctuations, starting with S signify symbols and those starting with C signify control characters. Note, the spread sheet does not contain all the fields (columns) from the UnicodeData.txt file.

# ASWG Endorsement

With a quorum established the ASWG voted to endorse schema r35, with the included aseXML Change Requests. The voting results are forwarded to AEMO for approval. When 75% of those ASWG members vote to endorse a schema it represents an ASWG recommendation for that schema. AEMO will not reject an ASWG recommendation without first consulting with the ASWG.

The results of the ASWG vote for the final schema to be released are as follows:

Noter that previous vote on 21/12/2016 was majority Against.

Date of Vote: 16/01/2017

| **Option** | **# Votes** | **% Vote** |
| --- | --- | --- |
| For |  |  |
| Against |  |  |
| Abstained |  |  |
| Total Members Present |  | 100% |

# AEMO Approval

The schema approval and approval date are identified below

|  |  |  |
| --- | --- | --- |
| **Status** | **Date** | **Authorised by** |
| **Approved** – The schema has been approved by AEMO and is formally released for use |  |  |